

Exhibit 720-3 Bridge Vertical Clearances

Project Type	Vertical Clearance [8]	Documentation Requirement (see notes)
Interstate and Other Freeways [1]		
New Bridge	> 16.5 ft	[2]
Widening Over or Under Existing Bridge	> 16 ft	[2]
	< 16 ft	[4]
Resurfacing Under Existing Bridge	> 16 ft	[2]
	< 16 ft	[4]
Other With No Change to Vertical Clearance	> 14.5 ft	[3]
	< 14.5 ft	[4]
Nonfreeway Routes		
New Bridge	> 16.5 ft	[2]
Widening Over or Under Existing Bridge	> 15.5 ft	[2]
	< 15.5 ft	[4]
Resurfacing Under Existing Bridge	> 15.5 ft	[2]
	< 15.5 ft	[4]
Other With No Change to Vertical Clearance	> 14.5 ft	[3]
	< 14.5 ft	[4]
Bridge Over Railroad Tracks [7]		
New Bridge	> 23.5 ft	[2]
	< 23.5 ft	[4][5]
Existing Bridge	> 22.5 ft	[2]
	< 22.5 ft	[4][5]
Pedestrian Bridge Over Roadway		
New Bridge	> 17.5 ft	[2]
Existing Bridge	17.5 ft	[6]
Notes: [1] Applies to all bridge vertical clearances over highways and under highways at interchanges. [2] No documentation required. [3] Document to Design Documentation Package. [4] Approved design analysis required. [5] Requires written agreement between railroad company and WSDOT and approval via petition from the WUTC. [6] Maintain 17.5-ft clearance. [7] Coordinate railroad clearance with the HQ Design Office Railroad Liaison. [8] See 720.03(5) .		

1 25. *FHWA Technical Manual for Design and Construction of Road Tunnels –*
2 *Civil Elements* (publication FHWA-NHI-10-034)

3 2.13.2.1 **Bridge Design Manual Rights and Responsibilities**

4 The *WSDOT Bridge Design Manual* (BDM), as modified by the *WSDOT Bridge*
5 *& Structures Office Design Memoranda*, allocates responsibilities as follows:

- 6 • Rights and Responsibilities - The following clarifies which rights and
7 responsibilities discussed in the BDM are applicable to the Design-
8 Builder:
 - 9 - The Design-Builder shall complete all analyses, evaluations, load
10 ratings, plans, and specifications discussed in the BDM.
 - 11 - All such analyses, evaluations, load ratings, plans, and specifications
12 are subject to Review and Comment by the WSDOT.
 - 13 - All references to WSDOT Sections, offices, and engineers shall mean
14 WSDOT.
- 15 • Where the BDM or the *WSDOT Bridge & Structures Office Design*
16 *Memoranda* requires approval by the WSDOT Bridge Design Engineer,
17 the Design-Builder shall be responsible for obtaining approval from the
18 WSDOT Engineer prior to proceeding with the design.

19 2.13.3 ***Personnel Requirements***

20 The Design-Builder shall provide a Structural Lead Engineer (SLE) to manage
21 and review all aspects of the structural Work completed for the Project. The SLE
22 shall ensure that all design and construction of permanent Work is in conformance
23 with the Request for Proposal (RFP) and Quality Management Plan (QMP), and
24 shall be responsible for the quality of the structural Work performed and for
25 coordinating all structural design elements of the Project.

26 The SLE shall have a minimum of 10 years of experience in the design of bridges,
27 retaining walls, and other highway related structures. The SLE shall be in
28 responsible charge of all bridge and structures design elements. This individual
29 shall be a Licensed Professional Engineer in the State of Washington and in the
30 branches of Civil and Structural Engineering.

31 The Engineer of Record (EOR) for all structural engineering Design Documents
32 for the Project shall have a minimum of 10 years of experience in the design of
33 bridges, retaining walls, and other highway related structures. The EOR shall be a
34 Licensed Professional Engineer in the State of Washington and in the branches of
35 Civil and Structural Engineering.

36 2.13.4 ***Design Criteria***

37 The Design-Builder shall design and construct permanent bridges and structures
38 to achieve a minimum service life of 75 years. All new structures crossing
39 roadways shall provide a minimum vertical clearance of 17 feet-6 inches over the
40 roadway. Any modifications, improvements and/or widening to existing structures